

LED DEVICE AND METHOD FOR FABRICATING THE SAME

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Abstract of KR 20030004755 (A)

PURPOSE: An LED device and a method for fabricating the same are provided to increase current density by forming a bird's beak on a lower side portion of a window layer. CONSTITUTION: An n-type GaAs cladding layer(12), a p-type GaAs active layer(14), and a p-type Al_xGa_{1-x}As window layer(18) are sequentially grown on an n-type GaAs semiconductor substrate(10). An electrode is formed by forming and patterning a conductive layer on the semiconductor substrate(10) and the window layer(18). A light emission layer(16) is used for emitting light by p-n junction of the n-type GaAs cladding layer(12) and the p-type GaAs active layer(14). The light is emitted from the light emission layer(16) to the window layer(18). An epitaxial wafer is formed by a cutting process. A bird's beak(24) is formed by using diluted HF(HydroFluoric acid).

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